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APPLICANT: MATSUSHITA ELECTRIC IND CO LTD;

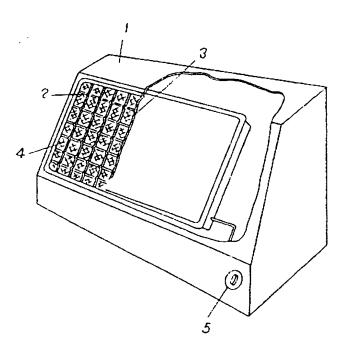
INVENTOR: MATSUMOTO IKUO:

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TITLE

: OXIDIZING CATALYST



ABSTRACT: PURPOSE: To obtain the oxidizing catalyst having a large surface area and superior activity for burning hydrocarbon, etc. by producing fine powder of composite oxide CuCO2O4 by the evaporation gas method by which plasma, arc, etc., are irradiated to the oxide mixed stoichiometrically.

> CONSTITUTION: Copper oxide and cobalt oxide are stoichiometrically mixed and introduced put into a container, after reducing the pressure some of inert gas is introduced into it to carry out arc thermal spraying, and CuCo2O4 fine powder having a very large surface area of about 40~60m²/g is obtained by the vapor phase method. In the utility example of natural gas to a catalyst burner, the gas is burned catalytically on the oxidizing catalyst where the above-mentioned catalyst powder is supported together with alumina nitrate on the sheet-like alumina fiber and the gas is completely decomposed into steam and carbonic acid gas and the heat generated at this time is utilized for a heating system.

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